

For Research Use Only

# mGluR1 Polyclonal antibody

Catalog Number: 19955-1-AP **3 Publications**



## Basic Information

**Catalog Number:**

19955-1-AP

**Size:**

260 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**GenBank Accession Number:**

NM\_000838

**GeneID (NCBI):**

2911

**UNIPROT ID:**

Q13255

**Full Name:**

glutamate receptor, metabotropic 1

**Calculated MW:**

132 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

IHC 1:50-1:500

IF 1:50-1:500

## Applications

**Tested Applications:**

FC, IF/ICC, IHC, ELISA

**Species Specificity:**

human, mouse

**Cited Species:**

human

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

IHC : mouse brain tissue,

IF : mouse brain tissue,

## Background Information

GRM1, also named as GPRC1A and MGLUR1, belongs to the G-protein coupled receptor 3 family. GRM1 is a receptor for glutamate. The activity of GRM1 is mediated by a G-protein that activates a phosphatidylinositol-calcium second messenger system. It may participate in the central action of glutamate in the CNS, such as long-term potentiation in the hippocampus and long-term depression in the cerebellum. The antibody can recognize isoform1 and isoform2 of GRM1.

## Notable Publications

Author	Pubmed ID	Journal	Application
Jee Hyun Yi	32766549	Brain Commun	
Stacey S Willard	23983606	Int J Biol Sci	
Koochekpour Shahriar S	23072969	Clin Cancer Res	

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

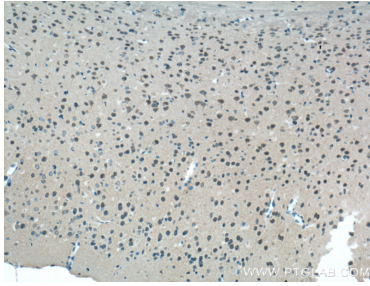
T: 4006900926

E: Proteintech-CN@ptglab.com

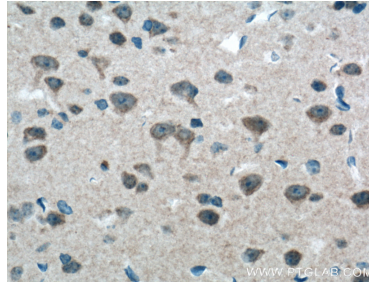
W: ptgcn.com

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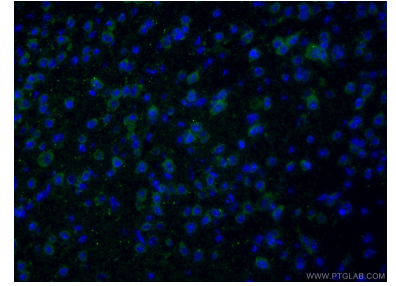
## Selected Validation Data



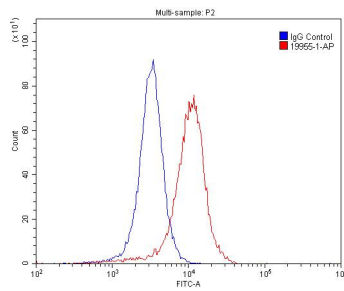
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 19955-1-AP (mGluR1 antibody at dilution of 1:200) (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 19955-1-AP (mGluR1 antibody at dilution of 1:200) (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using 19955-1-AP (mGluR1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1X10<sup>6</sup> SH-SY5Y cells were stained with 0.2ug mGluR1 antibody (19955-1-AP, red) and control antibody (blue). Fixed with 4% PFA blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500.